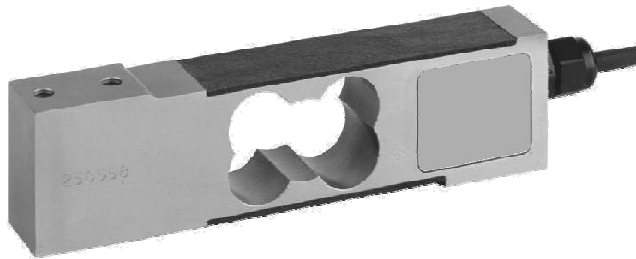


## Type PC1 load cell



- **High Accuracy**
- **Stainless Steel Construction**
- **Resistant to off axis loads**
- **Allows vessel expansion**

### Description

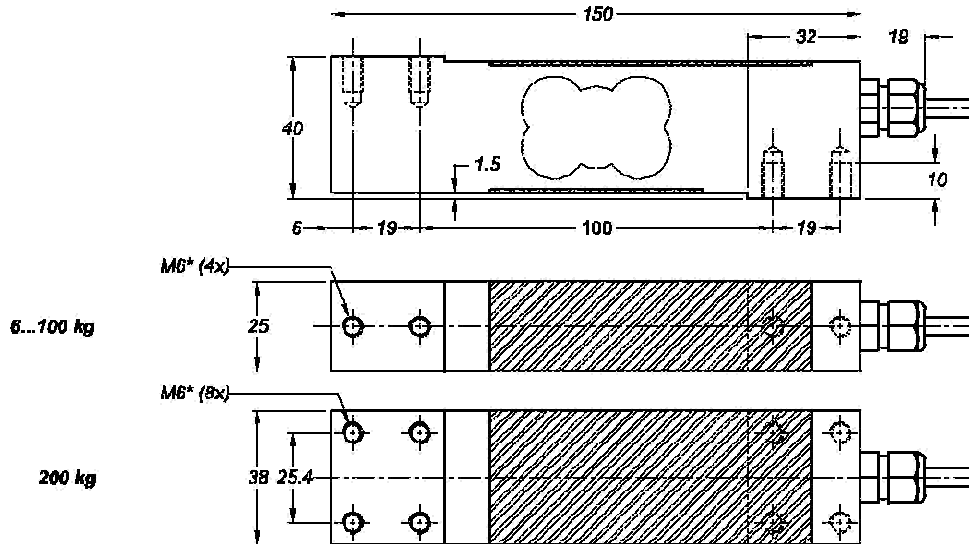
Flintec load cells are designed to meet the most stringent accuracy requirements. Certifications have been obtained from Weights & Measures Authorities, worldwide. The PC1 platform load cells are available in the capacities 6kg to 200 kg and include Accuracy Classifications GP, C3, C3 MI 6 and C4 according to OIML R 60; NTEP nmax=4500.

They offer stainless steel construction and improved potting, making them suitable for use in tough industrial environments.

Designed to withstand shock and fatigue loading.

The off center load performance according OIML allows a maximum platform size of 600 x600mm. The version PC 1B is available with M10 thread in the capacities 50kg, 75kg and 100kg. The PC1 / PC 1B is available for use in hazardous areas zone 1, 2(gas) and 21, 22 (dust) according to EEx ia IIC T6...T4 T150°C ATEX.

## Dimensions



All dimensions in mm. Dimensions and specifications are subject to change without notice.

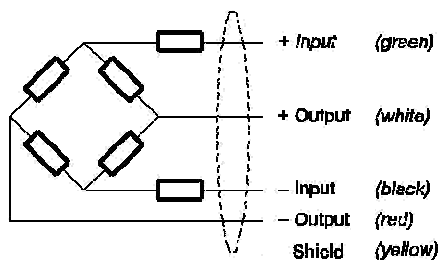
PC1: Mounting bolts M6 8.8; torque 10 Nm. Torque value assumes oiled threads.

\* Unified thread 1/4-20 UNC is available.

PC1B: Mounting bolts M10 8.8; torque 50 Nm (50/75/100 kg). Torque value assumes oiled threads.

### PC1 Specifications

Maximum capacity (=E <sub>max</sub> )	kg	6 / 10 / 15 / 30 / 50 / 75 / 100 / 200			6 / 10 / 15 / 30	
		(GP)	C3	C3 M 6	C4	
Rated Output (=RO)	mV/V	2 ± 5%				
Accuracy class according to OIML R 60		(GP)	C3	C3 M 6	C4	
Maximum number of verification intervals (n)		n.a.	3000	3000	4000	
Minimum load cell verification interval (V <sub>min</sub> )		n.a.	E <sub>max</sub> /8000	E <sub>max</sub> /9000	E <sub>max</sub> /8000	
Combined error	%RO	± 0.040	± 0.015	± 0.012	± 0.012	± 0.012
Creep error (30 minutes)	%RO	± 0.060	± 0.024	± 0.012	± 0.012	± 0.012
Temperature effect on minimum dead load output	%RO/°C	± 0.0040	± 0.00085	± 0.00085	± 0.00085	± 0.00085
Temperature effect on sensitivity	%/°C	± 0.0020	± 0.0010	± 0.0010	± 0.0010	± 0.0010
Excitation voltage	V	5...15				
Zero balance	%RO	±1.0				
Input resistance		390 ± 10				
Output resistance		330 ± 25				
Insulation resistance	M	5000				
Compensated temperature range	°C	-10...+40				
Operating temperature range	°C	-20...+65				
Safe load limit	%E <sub>max</sub>	200				
Ultimate load	%E <sub>max</sub>	300				
Safe side load	%E <sub>max</sub>	100				
Maximum platform size; loading according OIML	mm	375× 375 for 6...15 kg / 450× 450 for 30 kg / 600× 300 for other capacities				
Maximum off center distance at maximum capacity	mm	200				
Load cell material		stainless steel 17-4 PH (1.4548)				
Sealing		potted				
Protection according DIN 40.050		IP 67				



#### Note:

Maximum errors (+/-) are expressed as a percentage of rated load (when measured at 10Vdc excitation). The linearity and hysteresis is the maximum deviation from a straight line drawn between the no load and the rated load outputs for both increasing and decreasing loads. Accuracy classes apply when active range (live weight) is within 20 to 90% of rated load.